Asarco File

"Nickel, Jon"
<JNickel@asarco.com>
03/27/2009 09:21 AM

To "Denise A. Kirkpatrick \(E-mail\)" <dkirkpatrick@mt.gov>

cc Linda Jacobson/R8/USEPA/US@EPA, <glorenson@hydrometrics.com>, "Miller, Robert" <RoMiller@asarco.com>, "Cox, Blaine"

bcc

Subject Responses to Demolition Work Plan Questions

Denise -
Thank you for pointing out the stack demolition waste volume disparity between the CAMU Design Analysis Plan and the proposed 2009 Demolition Plan. The correct stack demolition waste volume is estimated at 6,890 cubic yards. See the revised attachment. Using the corrected number, the projected volume to be placed in the CAMU at the end of the 2009 construction period is estimated at 63,660 cubic yards. However, the CAMU can handle additional material, if necessary. The side slopes of the CAMU phase 2 cell will not change with additional volume beyond the design volume. Only the height of the cell and area of the top of the cell will change. The current CAMU design will hold 78,656 cubic yards of material at a height of 17 feet. Without changing the design side slopes, the CAMU Phase 2 cell could hold 119,000 cubic yards of material and would be 31 feet high. For reference, the CAMU Phase 1 Cell is 20 feet high. To hold a volume of 100,000 cubic yards, the CAMU Phase 2 Cell would be 21 feet high, similar height to the CAMU Phase 1 Cell.

Jon Nickel

<<R09 2009 Cleaning and Demolition Work Plan _Page 9-2.pdf>>

R09 2009 Cleaning and Demolition Work Plan _Page 9-2.pdf

from every 20 haul trucks, assuming that the material being hauled is not metal. In addition, samples will be collected from waste generated by cleaning activities if the material is not containerized within the haul truck. No samples will be collected from materials generated from cleaning activities if the load is bagged and sealed in plastic.

TABLE 9-1. MATERIAL VOLUMES AND ESTIMATED SAMPLES

2009 Work Plan Work Areas	Material Volume (cubic yards)	Number of Haul Trucks (assume 15 yards/truck)*	Minimum Number of Samples (1/20 trucks)**
Sample Mill, Crushing Mill, Soil Pile by Sample/ Crushing Mill, Hopto Pad, Storage Bins, and Conveyor Gallery, Acid Dust Facility.	7100	474	24
Sinter Stockpile Building, Highline Railroad, Abandoned and New Breaking Floor, Groundwater Sump.	1,370	92	5
Concentrate Storage and Handling Building Ventilation System	0	0	0
400' D&L Stack, 200' Acid Stack, 425' Blast Furnace Stack	6,890	460	23
Total	**15,360**	**1,026**	**52**

Number of haul trucks assumes a 15 cubic yard capacity. Alternative truck haul capacities may be used by the contractor (typically a range of 10 cubic yards to 20 cubic yards).
The actual number of samples may vary based on the capacity of the haul trucks used and the number of truck loads. The number of samples will be adjusted to the actual number of truckload transported to the CAMU.

Each haul truck payload to be sampled will be divided into five areas. A grab sample shall be collected at a random location within each of the five areas. If, based upon Asarco's engineering consultant's determination, a location within a sampling area can be visually identified to be potentially the worse case for that area, the sample will be obtained from that location to bias the sample. If, based on Asarco's engineering consultant's judgment, it is not possible to identify a worse case location, the sample will be obtained from a random location. All five samples will be combined into one composite sample and mixed thoroughly. This composite sample will be forward to the laboratory for analyses.

A sampling notebook shall include the location and work area where waste is being hauled from, a description of the materials in the haul truck payload, the sample identification